



Project No: AFC002001030202
Project: Supplemental RI
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing(ft): 2100765.6

Borehole ID: HGL79 (24MW24B)
Date: 10/28/2003
Geologist: D. Fortier
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 452.80
Easting(ft): 5801830.6

SUBSURFACE PROFILE					SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)		
2		Poorly graded sand Grayish orange, dry, loose, fine grained at 5' some light brown iron staining, moist at 9' to 10' thin interbeds of sandy clay/clayey sand	SP	443					No apparent fill Vertical roots from nearby trees.
4									
6					100	11/19/20	3.8		
8									
10		Sandy clay Light olive gray with 30% dark yellow brown mottling, moist, stiff, 60% clay / 40% sand	CL	442	80	19/50 for 5"	4.2		Insufficient water for shallow zone sample.
12									
14		Poorly graded sand Grayish orange, moist, loose, 100% medium sand at 13' dark yellowish orange, moist to very moist, slightly dense, medium grained at 19' moderate yellowish brown, trace variegated fine gravel at 21' fine to medium grained Thin interbedded silty, clayey sand from 22' to 23.5'	SP	428					
16					100	39/50 for 5"	4.4		
18									
20					100	50/50 for 4"	4.1		
22		Sand with silt and clay Moderate yellowish brown, slightly moist, moderately dense, 80% sand / 20% silt and clay	SM	426	100	50 for 5"	4.9		
24									
26		Poorly graded sand	SP	425					
28									
30		Sandy clay	SC	423	90	26/50 for 4"	4.4		
32									
34		Clayey sand Moderate yellowish brown, slightly moist, moderately dense, medium grained sand	SP	420					Intermediate groundwater bearing zone not encountered.
36					90	38/50 for 5"	5.9		
38		Poorly graded sand Pale yellowish brown, moist, slightly dense, fine to medium grained	SM	414					
40					80	50 for 6"	1.8		

Drilled By: Layne Christensen

Drill Method: Dual Tube Percussion

Drilling Equipment: AP-1000

Sampling Equipment: 2" x 18" CA Mod Split Spoon

HydroGeoLogic, Inc.
4600 Northgate Blvd., Suite 207
Sacramento, CA 95834
(916) 614-8770 FAX (916) 614-8775

Boring Diameter: 10"

Total Depth Drilled: 80"

Sheet: 1 of 2



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Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)		
42		Silty sand with clay Dark yellowish orange, slightly moist, very dense, 50% sand / 40% silt / 10% clay	SM	412	80				
44		Poorly graded sand Pale yellowish brown, slightly moist, slightly dense, fine to medium grained	SP						
46		at 43.5' very moist			80	50/50 for 6"	1.7		
48		at 45' very moist to saturated, medium grained							
50		at 48' saturated							
52		at 50' some dark yellowish orange iron stain mottling			100	20/20/50 for 3"	1.6		
54									
56		at 55' 5% clay			100	47/50 for 4"	1.7		
58									
60		at 60' fine grained			100	37/50 for 3"	1.7		
62				390					
64		Gravelly sand Pale yellowish brown, saturated, slightly dense, 60% medium sand / 40% fine gravel	SW	389					
66			SP		100	37	2.1		
68		Poorly graded sand Pale yellowish brown, saturated, trace fine gravel, heaving sands							
70									
72									
74									
76				377					
78		Clay Medium dark gray, slightly moist, very stiff, low plasticity, black organic material	CL		100	17/48/50 for 3"	1.9		
80				373					

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Flowing, heaving sand below 65'.

Drilled to 77'. Sampled to 78.5'.

Set temporary well (screen 72' - 77').

Collect groundwater sample (HGL79-GW76).

Install monitoring well in boring.

Note: Boring deepened to 80' during well installation.